

Facility ID: 0243071336 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 0243071336 Emissions Unit ID: K001 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Human remains incinerator (N001) Power-Pak II Ultra.	OAC 3745-31-05(A)(3) PTI #02-15553	PM: 0.22 tons per year OC: 0.01 lbs/hr, 0.02 tons per year NOx: 0.68 lbs/hr, 1.49 tons per year CO: 0.007lbs/hr, 0.02 tons per year SO2: 0.09 lbs/hr, 0.20 tons per year
	OAC 3745-17-09(B)	0.10 pound of particulate matter per 100 pounds of material charged.
	OAC 3745-17-07(A)	Less stringent than OAC 3745-31-05(A)(3)
	OAC 3745-17-09(C)	See A.2.b.

2. **Additional Terms and Conditions**
  - (a) Visible emissions shall not exceed five (5) percent opacity as a six-minute (6) average except for six (6) minutes in any sixty (60) minute period during which the opacity shall not exceed ten (10) percent. This incinerator and all associated equipment and grounds shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

**B. Operational Restrictions**

1. This incinerator shall be operated only by personnel adequately trained.
2. The permittee shall operate and maintain the incinerator in such a way to meet all applicable engineering standards and practices and the recommendations of the manufacturer in order to minimize the air contaminant emission releases.
3. This unit shall not be used to dispose of infectious or medical waste as defined in OAC 3745-75-01(C)(4).
4. During a cremation burn, the temperature of the secondary combustion chamber shall be maintained at a minimum of 1600 degrees Fahrenheit.
5. The secondary combustion chamber shall be pre-heated for at least thirty (30) minutes prior to ignition of the charge and shall continue to be used during the entire burn cycle.
6. The "Visible Emissions Alarm" shall be operated at all times the incinerator is in operation and shall be maintained in accordance with any and all recommendations of the manufacturer.

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall operate and maintain a continuous temperature monitor and recorder for the secondary combustion chamber operating temperatures. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturers recommendations, instructions, and applicable operating manual(s).
2. The permittee shall maintain copies of the records of the secondary combustion chamber temperature at the facility for a period of at least five years. Those records should be made available for Ohio EPA or their representatives to review during normal working hours.

3. The permittee shall operate and maintain a continuous visible emissions alarm located inside the exit stack. The visible emissions alarm shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and applicable operating manual(s).

**D. Reporting Requirements**

1. The permittee shall submit temperature deviation (excursion) reports that identify all periods of time during which the secondary combustion chamber exhaust gas temperatures did not comply with the temperature limitation specified above, including:
- A. the date of the excursion;
  - B. the time interval over which the excursion occurred;
  - C. the temperature values during the excursion;
  - D. the cause(s) for the excursion; and
  - E. the corrective action which has been or will be taken to prevent similar excursions in the future.

This report shall be sent to the Ohio EPA, Northeast District Office within forty-five (45) days of the excursion.

**E. Testing Requirements**

1. Compliance with the emission limitations in section A.1. and A.2. of these Special Terms and Conditions shall be determined in accordance with the following methods:

Emission Limitation: 0.10 pound of Particulate Matter per 100 pounds of material charged.

Applicable Compliance Method: If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(8) (Method 1-5, 40 CFR 60, Appendix A).

Emission Limitation: 0.22 tons Particulate Matter per year.

Applicable Compliance Method: Compliance with this emission limit shall be demonstrated by utilizing the following equation:

$$EPMYR = 0.1 \text{ (lbs/hour)} \times 1/2000 \text{ (tons/lbs)} \times 4380 \text{ (hours/year)}$$

where:

0.1 pounds of particulate matter per hour based on emission limitation of 0.001 lb/lb charged from OAC 3745-17-09(B)

100 lb/hr maximum allowable charging of incinerator.

EPMYR = emission of Particulate Matter, in tons per year.

Emission Limitation: Visible particulate emissions shall not exceed five percent, as a six-minute average except for six minutes in any sixty minute period during which the opacity shall not exceed ten percent.

Applicable Compliance Method: USEPA Method 9 (40 CFR Part 60, Appendix A.)

2. Emission Limitation: 0.01 pound of Organic Compounds per hour, and 0.02 tons per year.

Applicable Compliance Method: Compliance with these emission limits shall be demonstrated by utilizing the following equations:

$$EOCYR = 0.01 \text{ (lb/hr)} \times 1/2000 \text{ (tons/lbs)} \times 4380 \text{ (hours/year)}$$

where:

Emission factor of 0.01 lbs Organic Compound per hour based on similar emission source as stated in PTI application.

100 lbs/hour is maximum capacity of incinerator; and

EOCYR = emission of Organic Compounds, in tons per year.

3. Emission Limitation: 0.68 pound of Nitrogen Oxides per hour and 1.49 tons per year.

Applicable Compliance Method: Compliance with these emission limits shall be demonstrated by utilizing the following equations:

$$ENOYR = 0.68 \text{ (lbs/hr)} \times 1/2000 \text{ (tons/lbs)} \times 4380 \text{ (hours/year)}$$

where:

Emission factor of 0.68 lbs Nitrogen Oxide compounds per hour based on similar emission source as stated in PTI application.

100 lbs/hour is maximum capacity of incinerator; and

ENOYR = emission of Nitrogen Oxide compounds, in tons per year.

4. Emission Limitation: 0.007 pound of Carbon Monoxide per hour and 0.02 ton per year.

Applicable Compliance Method: Compliance with these emission limits shall be demonstrated by utilizing the following equations:

$$ECOYR = 0.007 \text{ (lb/hr)} \times 1/2000 \text{ (tons/lbs)} \times 4380 \text{ (hours/year)}$$

where:

Emission factor of 0.007 lbs Carbon Monoxide compounds per hour based on similar emission source as stated in PTI application.

100 lbs/hour is maximum capacity of incinerator; and

ECOYR = emissions of carbon monoxide, in tons per year.

5. Emission Limitation: 0.09 pound of Sulfur dioxide per hour and 0.20 tons per year;

Applicable Compliance Method: Compliance with these emission limits shall be demonstrated by utilizing the

following equations:

$$\text{ESOYR} = 0.09 \text{ (lb/hr)} \times 1/2000 \text{ (tons/lbs)} \times 4380 \text{ (hours/year)}$$

where:

Emission factor of 0.09 lbs Sulfur Dioxide compounds per hour based on similar emission source as stated in PTI application.

100 lbs/hour is maximum capacity of incinerator; and

ESOYR = emissions of carbon monoxide, in tons per year.

F. **Miscellaneous Requirements**

1. A copy of these Special Terms and Conditions shall be visibly posted near the incinerator.